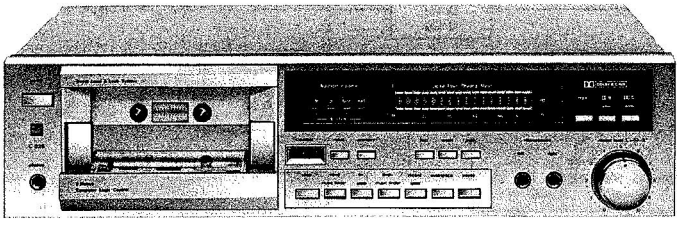
C 826



Service-Anleitung
Service Manual
Instructions de Service

Technische Daten (typische Werte) Das Gerät erfüllt bzw. übertrifft die in DIN 45 500 festgelegten Anforderungen an Geräte der Heimstudio-Technik (HiFi).	**Technical Data (typical values)** The unit meets the requirements of DIN 45 500 for domestic HiFi equipment. The data given are based on the current DIN reference tapes.	**Caractéristiques techniques (valeurs caractéristiques)** Cet appareil surpasse par ses performances les exigences de la norme DIN 45 500 (matériel HiFi, grand public).	
Bandgeschwindigkeit	**Tape speed**	**Vitesse de la bande**	4,75 cm/s
Kurzzeitige Geschwindigkeitsschwankungen (Tonhöhenschwankungen) W.R.M.S. nach DIN nur Wiedergabe nach DIN Aufnahme/Wiedergabe	**Wow and flutter** Weighted RMS to DIN for playback only to DIN for recording/playback	**Fluctuations instantanées de la vitesse** (variations de la hauteur du son) W.R.M.S. selon DIN lecture uniquement selon DIN enregistrement/lecture	 0,04 % 0,08 % 0,11 %
Übertragungsbereich (bezogen auf DIN-Toleranzfeld) Fe-Band CrO_2-Band FeCr-Band Reineisen-Band	**Frequency response** (ref. to DIN tolerances) Standard Fe tape CrO_2 tape FeCr tape Metal tape	**Bande passante** (ramenée à la plage de tolérance DIN) Bande Fe Bande CrO_2 Bande FeCr Bande fer pur	 20 – 16 000 Hz 20 – 17 000 Hz 20 – 18 000 Hz 20 – 19 000 Hz
Ruhegeräuschspannungsabstand mit Dolby NR Fe-Band CrO_2-Band FeCr-Band Reineisen-Band	**Signal-to-noise ratio** with Dolby NR Standard Fe tape CrO_2 tape FeCr tape Metal tape	**Rapport signal/bruit** avec Dolby NR Bande Fe Bande CrO_2 Bande FeCr Bande fer pur	**Dolby NR** **B** **C** 64 dB 71 dB 64 dB 71 dB 67 dB 74 dB 67 dB 74 dB
Übersprechdämpfung (bei 1000 Hz) zwischen zusammengehörigen Kanälen zwischen Kanälen in Gegenrichtung	**Channel separation** (at 1,000 Hz) between stereo channels in opposite direction	**Diaphonie** (à 1000 Hz) en sens stéréo en sens inverse	 40 dB 70 dB
Löschdämpfung bei 1000 Hz	**Erasure** at 1000 Hz	**Atténuation d'effacement** à 1000 Hz	70 dB
Oszillator-Frequenz (Gegentaktoszillator)	**Oscillator** (push/pull oscillator)	**Fréquence de l'oscillateur** (oscillateur push-pull)	 105 kHz
Eingänge (Empfindlichkeit für 0 dB) Mikrofon (1/4" Koax.-Buchse) Receiver/Verstärker (RCA-Buchsen)	**Inputs** (sensivity at 0 dB) Microphone (1/4" coaxial jack) Receiver/amplifier (RCA jacks)	**Entrées** (sensibilité pour 0 dB) Micro (prise coaxiale de 1/4") Ampli-tuner/amplificateur (prises RCA)	 0,4 mV / 10 kOhm 60 mV / 50 kOhm
Ausgänge Receiver/Verstärker (RCA-Buchsen) Kopfhörer (1/4" Koax.-Buchse)	**Outputs** Receiver/amplifier (RCA jacks) Headphones (1/4" coaxial jack)	**Sorties** Ampli-tuner/amplificateur (prises RCA) Casque d'écoute (prise coaxiale de 1/4")	 560 mV / 3 kOhm 4 – 2000 Ohm
Umspulzeit für C 60 Cassette	**Fast winding time** for C 60 cassettes	**Temps de rebobinage** pour cassette C 60	 100 s
Bandlaufüberwachung (elektronisch) Abschaltzeit	**Tape monitor** (electronic) shut-off time	**Contrôle du défilement de bande** (électronique) Temps de déclenchement	 1,0 s
Netzspannung	**Line voltage**	**Tension secteur**	115 V und 230 V
Netzfrequenz	**Line frequency**	**Fréquence secteur**	50 – 60 Hz
Leistungsaufnahme	**Power requirement**	**Consommation**	38 W

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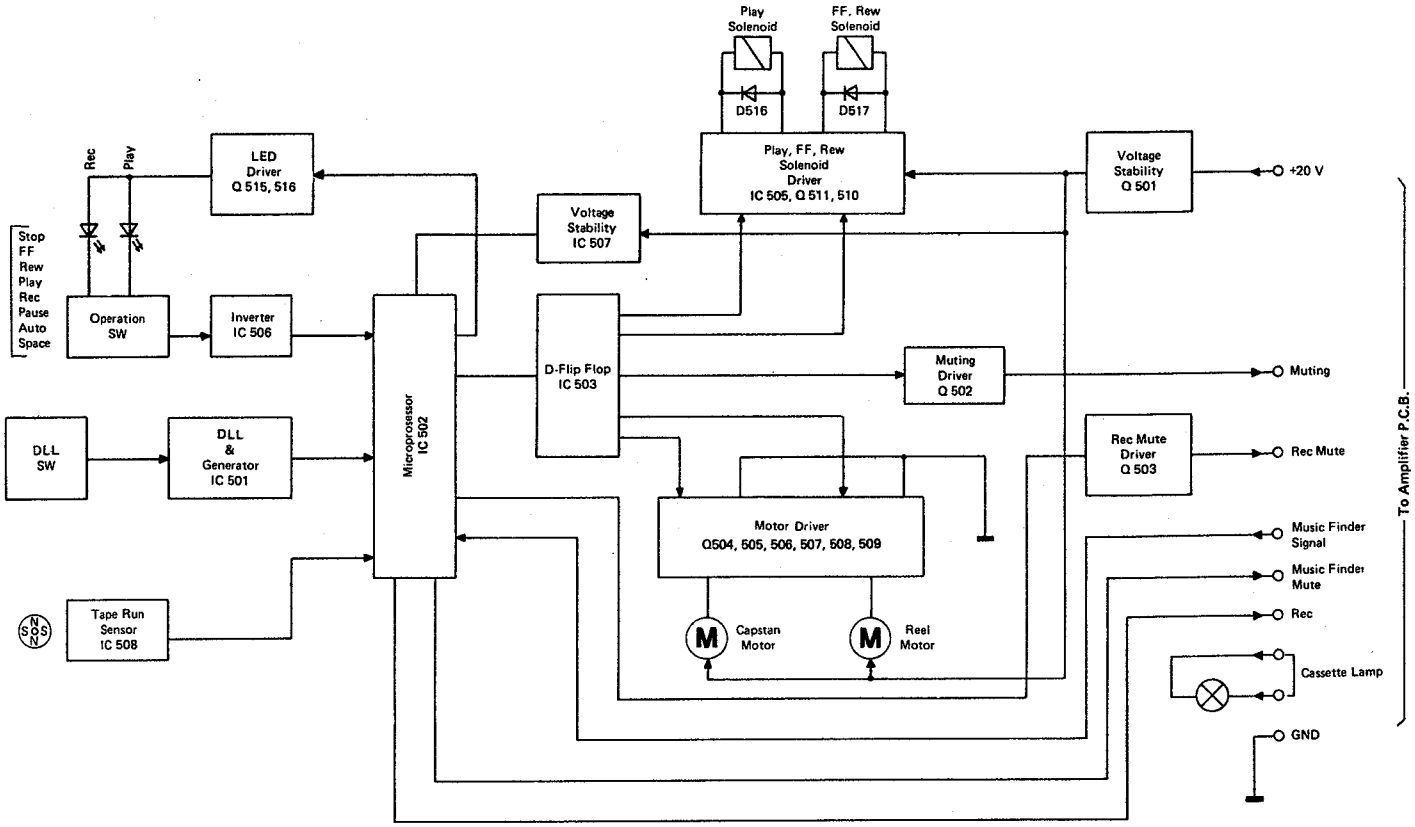
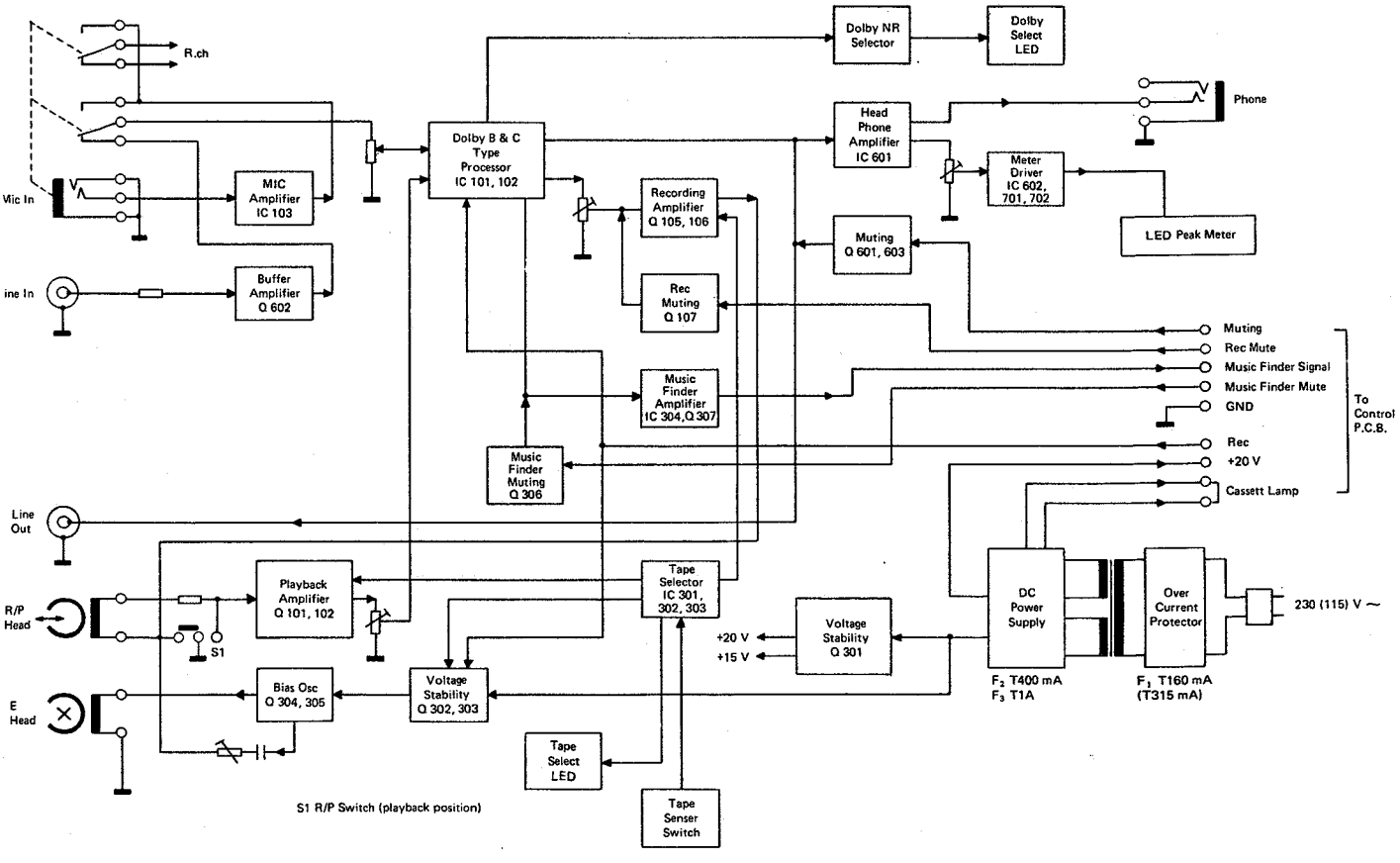
Blockschaltbild
Bloc diagramm
Schéma de bloc





Funktionsbeschreibung

Vom technischen Aufbau ist das C 826 dem C 824 gleichzusetzen, unter Wegfall der Monitorfunktion. Das Laufwerk, die Gerätesteuerung und der Mikroprozessor für die Gerätesteuerung, TMP 4320 AP, sind vom C 824 übernommen.

Dolby B. C NR

Das Dolby-System besteht aus zwei Schaltkreisen, dem IC 101 (NE 654 N) und IC 102 (NE 652 N). IC 102 beinhaltet die zweifache Dolby-Kompanderfunktion und IC 101 wirkt als Schaltprozessor, der die verschiedenen Filter und Netzwerke schaltungsmäßig an IC 102 ankoppelt und damit die Funktionen Dolby OFF, Dolby B oder C realisiert. An Pin 4 von Schaltprozessor IC 101 liegt die Steuerspannung für die Betriebszustände Dolby B OFF = 0 V, Dolby B = 4 V und Dolby C = 12 V. Das Aufnahmesignal gelangt an den Eingang Pin 1 von IC 101 und das vom Dolby-Prozeß unbeeinflußte Signal steht an Pin 5 (IC 101) für Monitorzwecke (Vorband) zur Verfügung. An Pin 13 (IC 101) steht das Aufnahmesignal zur Verfügung. Die Umschaltung zwischen RECORD und PLAY erfolgt durch den Steuereingang Pin 12 von IC 101 mit dem Pegel REC = 12 V, PLAY = 0 V.
Bei Wiedergabe gelangt das Signal über VR 101 an den Eingang Pin 9 des Schaltprozessors IC 101. Das Wiedergabe-Ausgangsignal steht an Pin 5 von IC 101 an.

Functional description

As far as the technical design is concerned, the C 826 is similar to the C 824, but without the monitor function. The drive mechanism, the unit control and the microprocessor for the unit control, TMP 4320 AP, have been taken from the C 824.

Dolby B. C NR

The Dolby system sonsists of two switching circuits, namely IC 101 (NE 654 N) and IC 102 (NE 652 N). IC 102 contains the dual Dolby compandor function and IC 101 functions as a switching processor, which connects the various filters and networks to IC 102 by means of circuitry and thus carries out the Dolby OFF, Dolby B or C functions. The control voltage for the operating modes Dolby B OFF = 0 V, Dolby B = 4 V and Dolby C = 12 V is available at Pin 4 of switching processor IC 101. The recording signal is routed to input Pin 1 of IC 101 and the signal, which is not affected by the Dolby, is available at Pin 5 (IC 101) for monitoring purposes (on-tape). The recording signal is available at Pin 13 (IC 101). The control input Pin 12 of IC 101 with the level REC = 12 V, PLAY = 0 V is used to switch over between RECORD and PLAY.
In the event of playback, the signal is routed via VR 101 to the input Pin 9 of the switching processor IC 101. The playback output signal is applied to Pin 5 of IC 101.

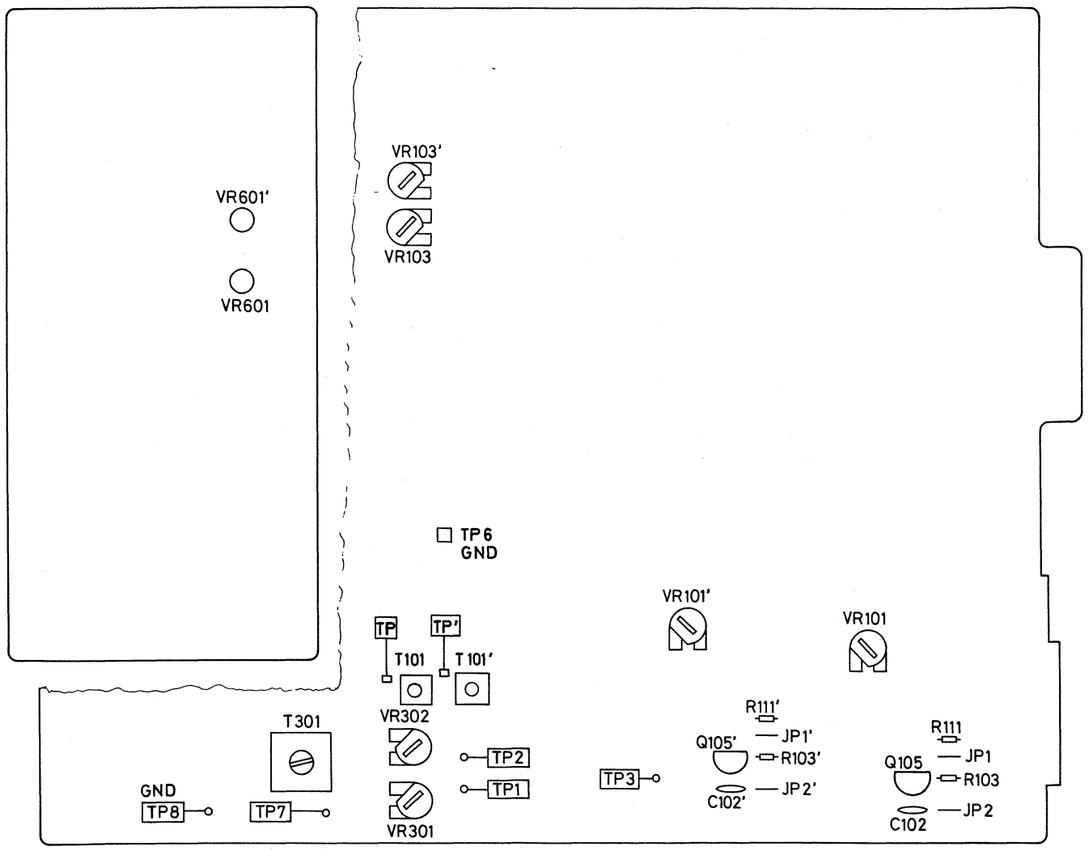
Description du fonctionnement

Du point de vue technique, le C 826 est identique au C 824, la fonction moniteur en moins. Le mécanisme d'entraînement, la commande de l'appareil et le microprocesseur pour la commande de l'appareil TMP 4320 AP, sont les mêmes que sur le C 824.

Dolby B. C NR

Le système dolby consiste en deux circuits intégrés, le IC 101 (NE 654 N) et le IC 102 (NE 652 N). Le IC 102 renferme la double fonction de compression-extension dolby et IC 101 fait fonction de processeur de commutation couplant les différents filtres es réseaux au IC 102 et réalisant ainsi les fonctions dolby OFF, dolby B ou C. La tension de commande pour les états de service dolby B OFF = 0 V, dolby B = 4 V et dolby C = 12 V arrive à la broche 4 du processeur IC 101. Le signal d'enregistrement arrive á l'entrée, broche 1, de IC 101 et le signal qui n'est pas influencé par le processus dolby est disponible sur la broche 5 (IC 101) pour le contrôle (amorce de bande). Le signal d'enregistrement est disponible sur la broche 13 (IC 101). La commutation entre RECORD et PLAY a lieu par l'entrée de commande, broche 12, de IC 101 avec le niveau REC = 12 V, PLAY = 0 V.
A la reproduction, le signal passe par VR 101 et arrive à l'entrée, broche 9, du processeur de commutation IC 101. Le signal de sortie de la reproduction est disponible sur la broche 5 du IC 101.

Abgleichpositionen
Alignment positions
Positions d'alingement



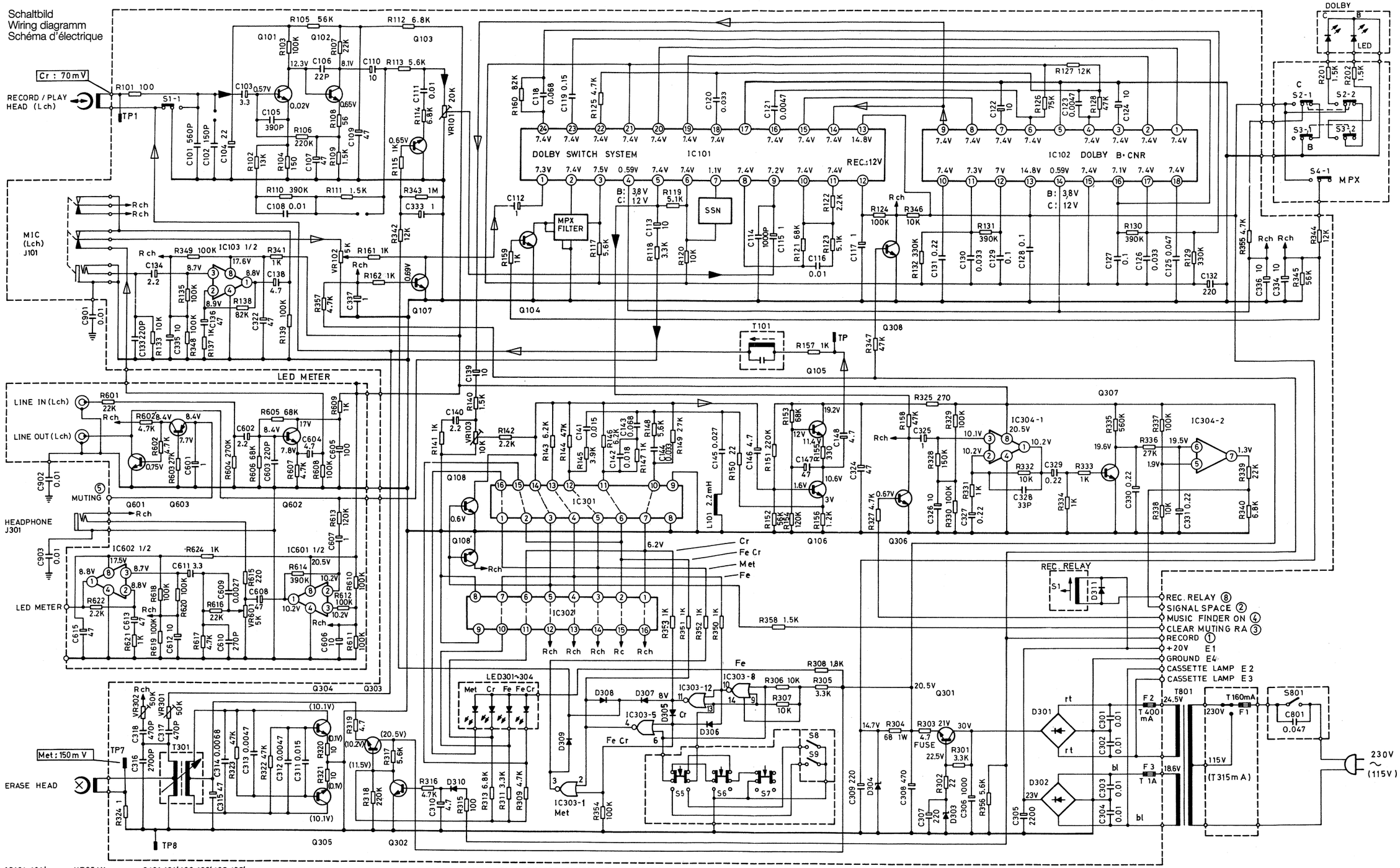
Abgleichanleitung C 826 · Adjustment instructions C 826

Signalquelle Signal source	Einstellung Signalquelle Signal source adjustment	Einstellung Gerät Unit adjustment	Anzeigegerät Anschluß Indicator connection	Abgleichposition Adjustment position	Abgleich, Bemerkung Adjustment, Remarks
Bandlauf · Tape Run					
Spiegelkassette Mirror cassette					Bandlauf prüfen Check tape run
Azimut · Azimuth					
Meßkassette 21 Test cassette 21	10 kHz	Fe: ON	NF-Voltmeter an AF-voltmeter to OUTPUT L/R	Azimutschraube Azimuth screw A	Maximum, mit Lack sichern Lock with lacquer
Bandgeschwindigkeit · Tape speed					
Meßkassette 21 Test cassette 21	3150 Hz	Fe: ON	Frequenzzähler an Frequency counter to OUTPUT L/R	Steller Motor Motor screw	3150 Hz, −0,5%
Wiedergabepegel · Playback level					
Meßkassette 21 Test cassette 21	400 Hz Dolby	Fe: ON Dolby B: ON	NF-Voltmeter an AF-voltmeter to OUTPUT L/R	VR 101 VR 101'	560 mV
Wiedergabefrequenzgang · Frequency reponse					
Meßkassette 21 Test cassette 21	400 Hz/10 kHz	Fe: ON	NF-Voltmeter an AF-voltmeter to OUTPUT L/R	JP 2 JP 2'	10 kHz < 400 Hz Brücke verbinden Connect jumber
Pegelanzeige · Level indicator					
NF-Generator an AF-generator to INPUT L/R	400 Hz 100 mV	Fe: ON Dolby B: ON Record: ON	NF-Voltmeter an AF-voltmeter to OUTPUT L/R	Record Level	OUTPUT L/R 560 mV
				VR 601 VR 601'	Anzeige auf 0 dB Indicator to 0 dB
Oszillator, HF-Sperrkreis · Oscillator, RF-trap					
		Metal: ON Record: ON	Frequenzzähler an Frequency counter to TP 7 (GND-TP 8)	T 301	105 kHz
			NF-Voltmeter an AF-voltmeter to TP/TP'	T 101 T 101'	Minimum HF Minimum RF
HF-Vormagnetisierung · RF-magnetic-biasing					
		Cr: ON Record: ON	NF-Voltmeter an AF-voltmeter to TP 1 / TP 2	VR 301 VR 302	Vorpegel 70 mV. Pre Level 70 mV
NF-Generator an AF-generator to INPUT L/R	400 Hz / 10 kHz 100 mV	Cr: ON Record: ON	NF-Voltmeter an AF-voltmeter to OUTPUT L/R	Record Level	30 mV OUTPUT L/R
				VR 301 VR 302	Bei Wiedergabe auf Pegelgleichheit der beiden Testfrequenzen einstellen, bei Höhenanhebung: im Uhrzeigersinn drehen. Adjust to level symmetrie on playback at test frequency, at treble emphasis: turn clockwise.
Aufnahmepegel · Record Level					
NF-Generator an AF-generator to INPUT L/R	400 Hz 100 mV BASF S 4592 A IEC II	Cr: ON Dolby B: ON Record: ON	NF-Voltmeter an AF-voltmeter to OUTPUT L/R	Record Level	560 mV OUTPUT L/R
				VR 103 VR 103'	560 mV

Meßcassette 1: Gleichlaufcassette 3150 Hz Meßcassette 21: 400 Hz Dolby-Pegel 200 nWb/m 400 Hz – 20 dB, 10 kHz – 20 dB Bezeichnung: VR 103 = linker Kanal > großer als VR 103' = rechter Kanal < kleiner als	Test cassette 1: Tape speed test cassette 3150 Hz Test cassette 21: 400 Hz Dolby-level 200 nWb/m 400 Hz – 20 dB, 10 kHz – 20 dB Signification: VR 103 = left channel > greater than VR 103' = right channel < less than

Bandsorten:
BASF LH Super I
BASF Cr Super II
Sony FeCr
TDK MA

Schaltbild
Wiring diagramm
Schéma d'électrique



IC101,101'----NE654N
IC102,102'----NE652N
IC103,601,602--AN6556
IC301,302 ----TD62504P
IC303------TC4001BP
IC304------TA75559P

Q101,101',102,102',105,105',
106,106',602,602'--2SC2634NC-T
Q103,103',104,104',302,306,
308 ----------2SC1684-S
Q107,107',108,108',601,601'--2SC2878-A
Q301 ----------2SD837-R
Q303 ----------2SD892-Q
Q304,305 ------2SD592-S
Q307 ----------2SC1318-S
Q603 ----------2SA564-R

D301,302 ----WO2
D303 ------HZ22-2L
D304 ------HZ15-1
D305~310 ---MA150
D311 ------SR1K-2

LED301~304---GL-9NG24

S1---PLAY/RECORD SWITCH (PLAY POSITION)
S2---DOLBY-C SWITCH (OFF POSITION)
S3---DOLBY-B SWITCH (OFF POSITION)
S4---MPX SWITCH (OFF POSITION)
S5---AUTO SWITCH (OFF POSITION)
S6---FeCr SWITCH (OFF POSITION)
S7---Met SWITCH (OFF POSITION)
S8,9--AUTOTAPE SWITCH (OFF POSITION)
S801--POWER SWITCH (OFF POSITION)

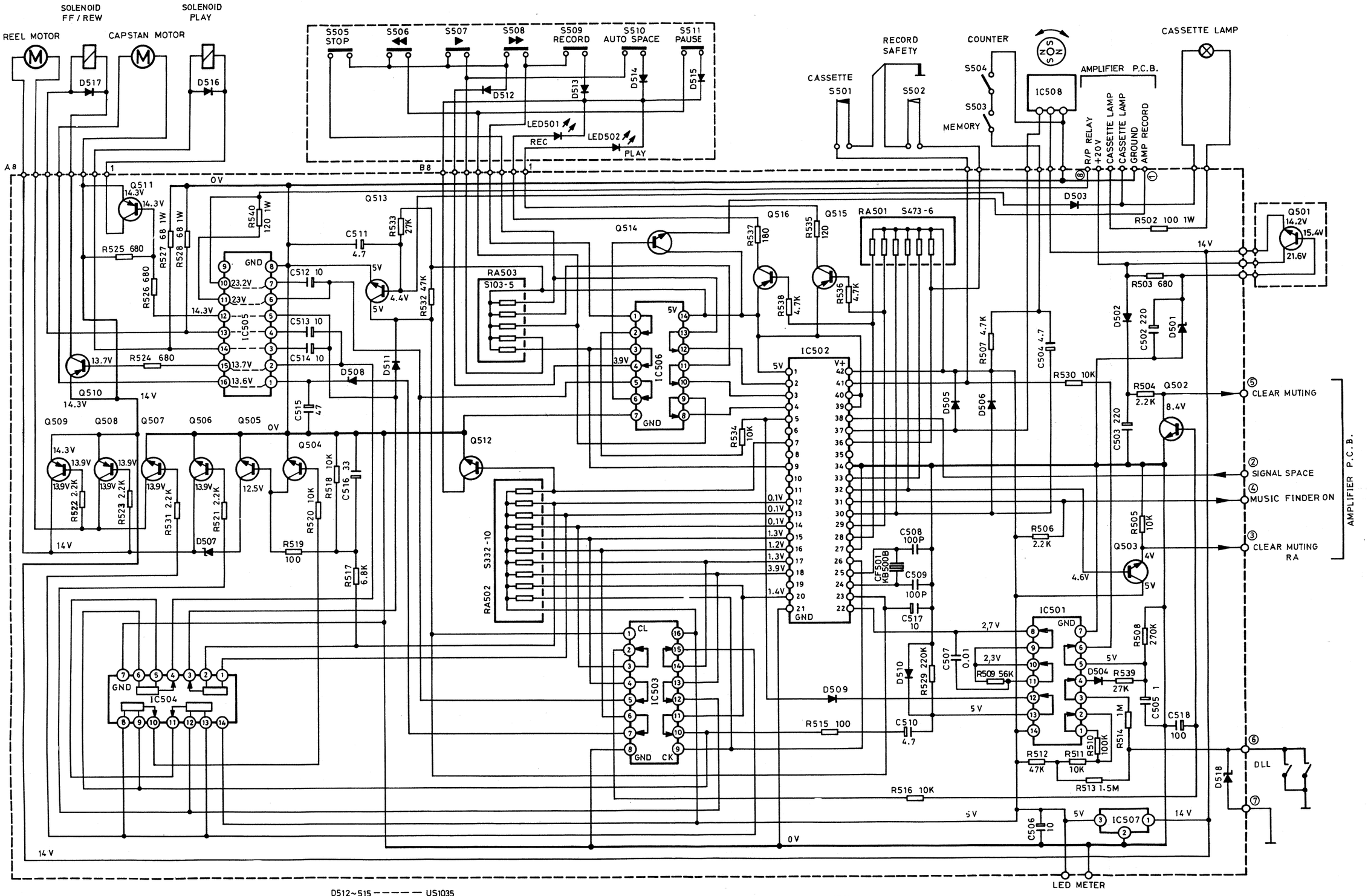
Autotape Switch Matrix

Cr S 9	FeCr S 8	Function
L	L	Met
H	L	FeCr
L	H	Cr
H	H	Fe

NOTES :
1. ALL RESISTANCE VALUES ARE IN Ω. K=1000Ω M=1000KΩ
2. ALL CAPACITANCE VALUES ARE IN μF. P=10⁻⁶μF
3. ALL RESISTORS ARE ¼ WATT UNLESS OTHERWISE SPECIFIED.
4. VOLTAGES MEASURED FROM POINT INDICATOR TO CHASSIS GROUND WITH V.T.V.M AT LINE VOLUME CONTROL MINIMUM AND NO SIGNAL.

(SPECIFICATIONS AND CIRCUITS SUBJECT TO CHANGE WITHOUT NOTICE FOR IMPROVEMENT.)

► SIGNAL BUS PLAY
▻ SIGNAL BUS RECORD



IC501,506 ----- TC4069BP
IC502 ------- TMP4320AP
IC503 ------- MM74C174N
IC504 ------- TC4071BP
IC505 ------- TD62104P
IC507 ------- MJM78M05
IC508 ------- DN6838

Q501 ------ 2SD549-D
Q502~505,512, 513,514 --- 2SC1815-GR
Q506,507 --- 2SC2120-Y
Q508~511 --- 2SA950-Y
Q515,516 --- 2SA1015-GR

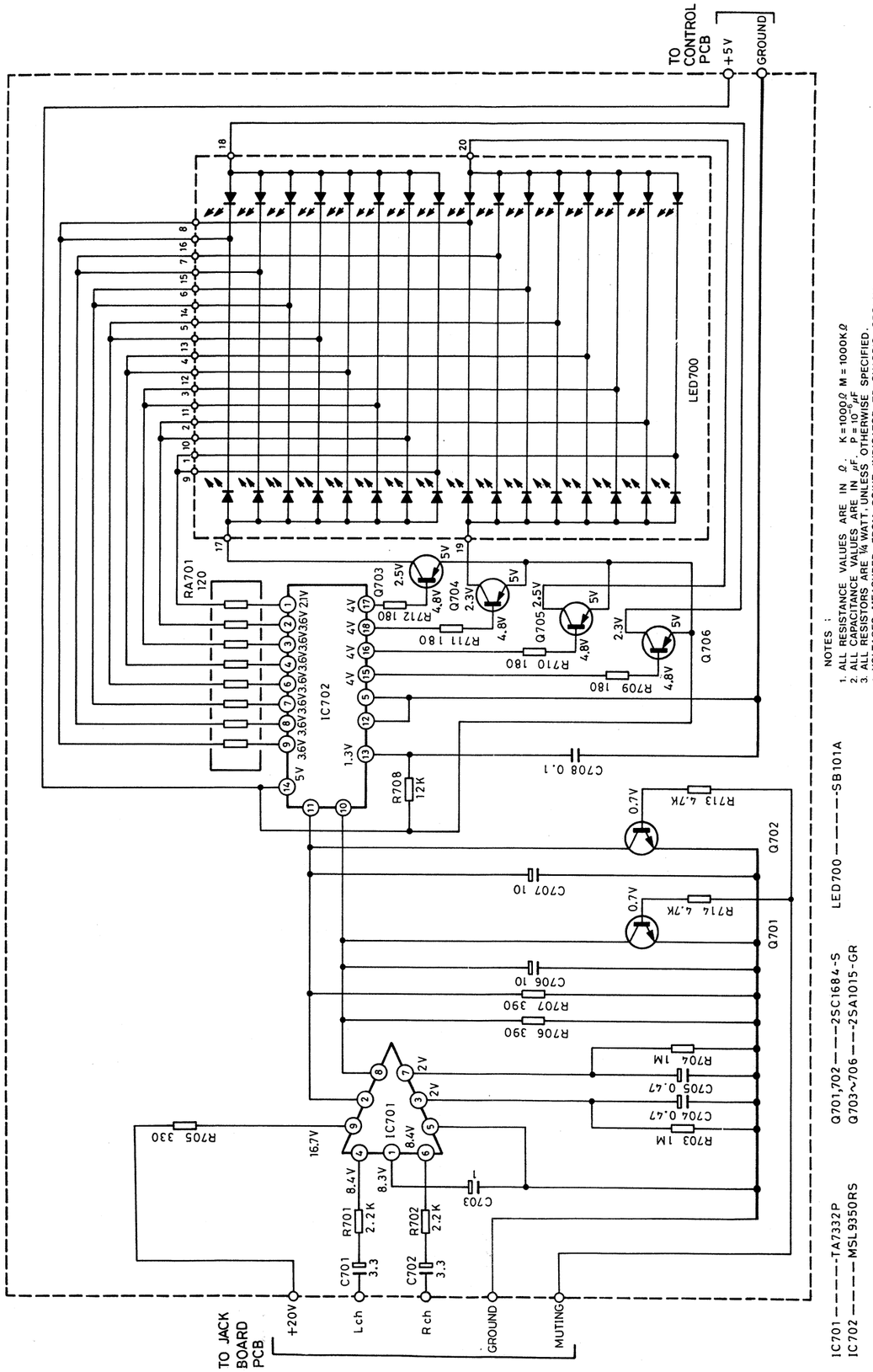
D512~515 ------ US1035
D501 ---------- HZ15-3
D502,516,517 ---- SR1S-2
D503~506,508~51 --MA150
D507 ---------- HZ6A-1L
D518 ---------- ERZC03DK121
LED501 ------- GL-9NG24
LED502 ------- GL-9PR24

S501--CASSETTE SWITCH(ON POSITION)
S502--RECORD SAFETY SWITCH(OFF POSITION)
S503--MEMORY SWITCH(OFF POSITION)
S504--COUNTER SWITCH(OFF POSITION)
S505--STOP SWITCH
S506--REW SWITCH
S507--PLAY SWITCH

S508--F.F. SWITCH
S509--RECORD SWITCH
S510--AUTO SPACE SWITCH
S511--PAUSE SWITCH

NOTES :
1. ALL RESISTANCE VALUES ARE IN Ω. K=1000Ω M=1000KΩ
2. ALL CAPACITANCE VALUES ARE IN μF. P=10^{-6}μF
3. ALL RESISTORS ARE ¼ WATT, UNLESS OTHERWISE SPECIFIED.
4. VOLTAGES MEASURED FROM POINT INDICATOR TO CHASSIS GROUND WITH V.T.V.M AT LINE VOLUME CONTROL MINIMUM AND NO SIGNAL.

(SPECIFICATIONS AND CIRCUITS SUBJECT TO CHANGE WITHOUT NOTICE FOR IMPROVEMENT.)



Prozessor TMP 4320 P (IC 502) · Pinbelegung

Pin	Signal				In Function by:
1	+ 5 V				
2 ←				Stop Switch	
3 ←	Record Switch			Fast Forward Switch ▶▶	
4 ←	Pause Switch			Rewind Switch ◀◀	
5 ←	Auto Space Switch			Play Switch ▶	
6					
7 →	Pulse Segment 1				
8					
9 →	Pulse Segment 2				
10					
11					
12 →	Solenoid Play, Reel Motor				Pause, Record SB, Play, Record
13 →	Solenoid Play				Music Finder ▶▶ und ◀◀
14 →		3	2 →	Clear Muting Playback	Play, Record SB, Record
15 →		4	5 →	RELAY Record	Record SB, Record
16 →		6	7 →	Capstan Motor	alle Funktionen, all functions
17 →		14	15 →	Reel Motor	Fast Forward, Music Finder ▶▶
18 →		13	12 →	Reel Motor	Rewind, Music Finder ◀◀
19					
20 →		11	10 →	Solenoid FF/REW, Reel Motor Off	Pause, Record SB
21		GND			
22 ←	Frequency 1 kHz from IC 501				
23 ←	Reset				Power ON
24	Quartz				
25					
26 →	Clock 10 μs (IC 503)				
27	0 V				
28 →	LED Record				Record SB, Record
29 →	LED Play			Segm. 1	Play, Record SB
30 ←	Memory				Counter 000 und Memory ON
31 →	Music Finder ON – Suchlauf, Scan				Music Finder ▶▶ und ◀◀
32 →	Clear Muting RA (Record Amp)				Record
33	+ 5 V				
34	0 V				
35	0 V				
36 ←	Record Safety Switch				Musicassette
37 ←	Tape Run Sensor				
38 ←	Signal Space (Musiklücke)				Music Finder ▶▶ und ◀◀
39	+ 5 V				
40	+ 5 V				
41 ←	DLL Switch, Cassette Switch				Kassette entfernt, without a cassette
42	UBAT + 5 V				

IC 503

Stecker A/Plug A

Pin	Signal
1 →	13 V Solenoid Play
2 →	7 V (100 ms Delay) Solenoid Play
3 →	UBAT + 13 V Capstan Motor
4 →	Solenoid FF/REW/Pause
5 →	Capstan Motor
6 →	7 V (100 ms Delay) Solenoid FF/REW
7 →	Reel Motor FF
8 →	Reel Motor REW

Verbindungspunkte/Connections

Pin	Signal
①	Record, Record SB
②	Signal Space
③	Clear Muting RA (Record Amp)
④	Music Finder ON
⑤	Clear Muting
⑥	DLL ON
⑦	GND
⑧	Record Relay ON

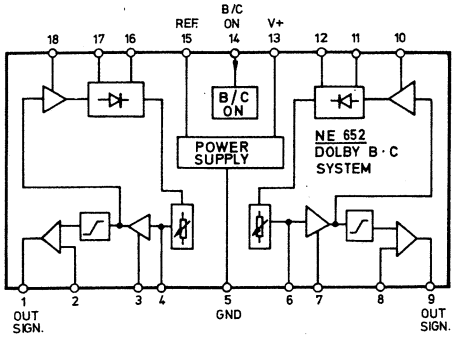
Dolby Switch System NE 654

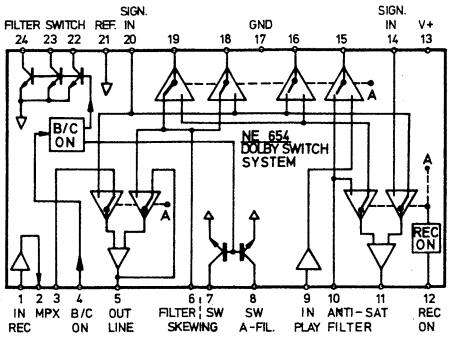
Schaltzustand/Switch Level

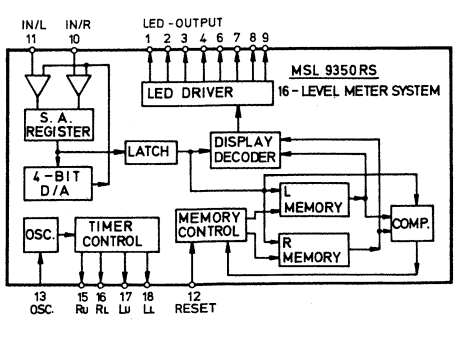
	Pin						
NE 654	4	7	8	22	23	24	12
Dolby C ON	12 V	ON	ON	OFF	OFF	OFF	–
Dolby B ON	4 V	OFF	OFF	ON	ON	ON	–
Dolby OFF	0 V	OPEN	OPEN	OPEN	OPEN	OPEN	–
Record	–	–	–	–	–	–	15 V
Play	–	–	–	–	–	–	0 V

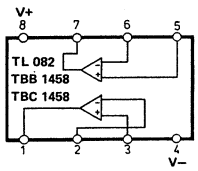
Bezeichnung, Signification:

2 ← Input
7 → Output
⎍ Signal HIGH active
⎏ Signal LOW active
Record SB = Record Stand By

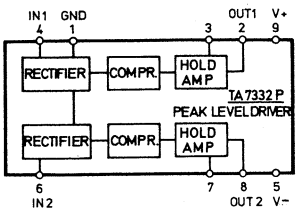


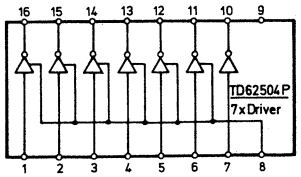


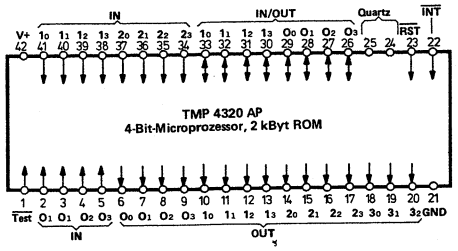


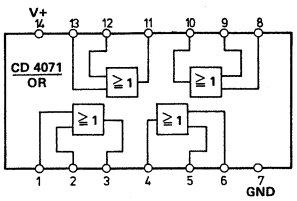


AN 6556
TA 75 559 P

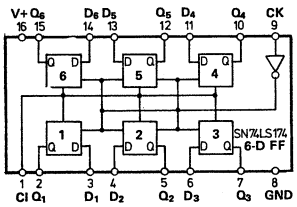




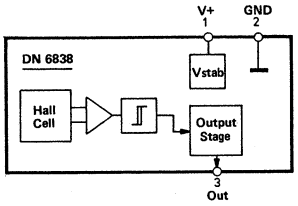


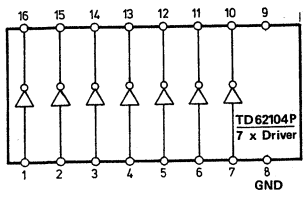


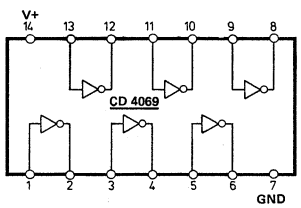
TC 4071



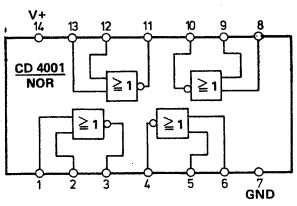
MM 74 C 174



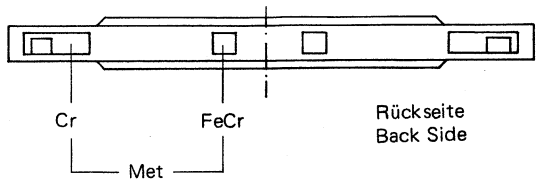




TC 4069

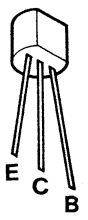


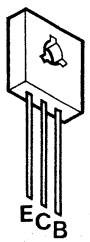
TC 4001

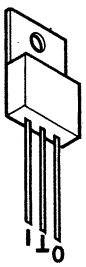


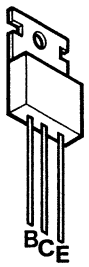
Autotape Switch Matrix

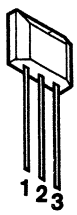
Cr S 9	FeCr S 8	Function
L	L	Met
H	L	FeCr
L	H	Cr
H	H	Fe











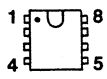
2 SA 564
2 SA 950
2 SA 1015
2 SC 1318
2 SC 1684
2 SC 1815
2 SC 2120
2 SC 2634
2 SC 2878
2 SD 592
2 SD 892

2 SD 549

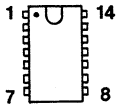
NJM 78 M 05

2 SD 837

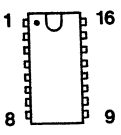
DN 6838



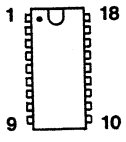
AN 6556
TA 75 559 P



TC 4001
TC 4069
TC 4071

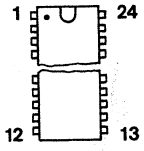


TD 62 104
TD 62 504
MM 74 C 174

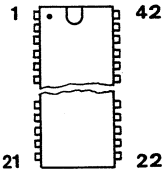


NE 652

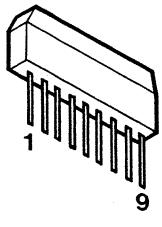
MSL 9350



NE 654

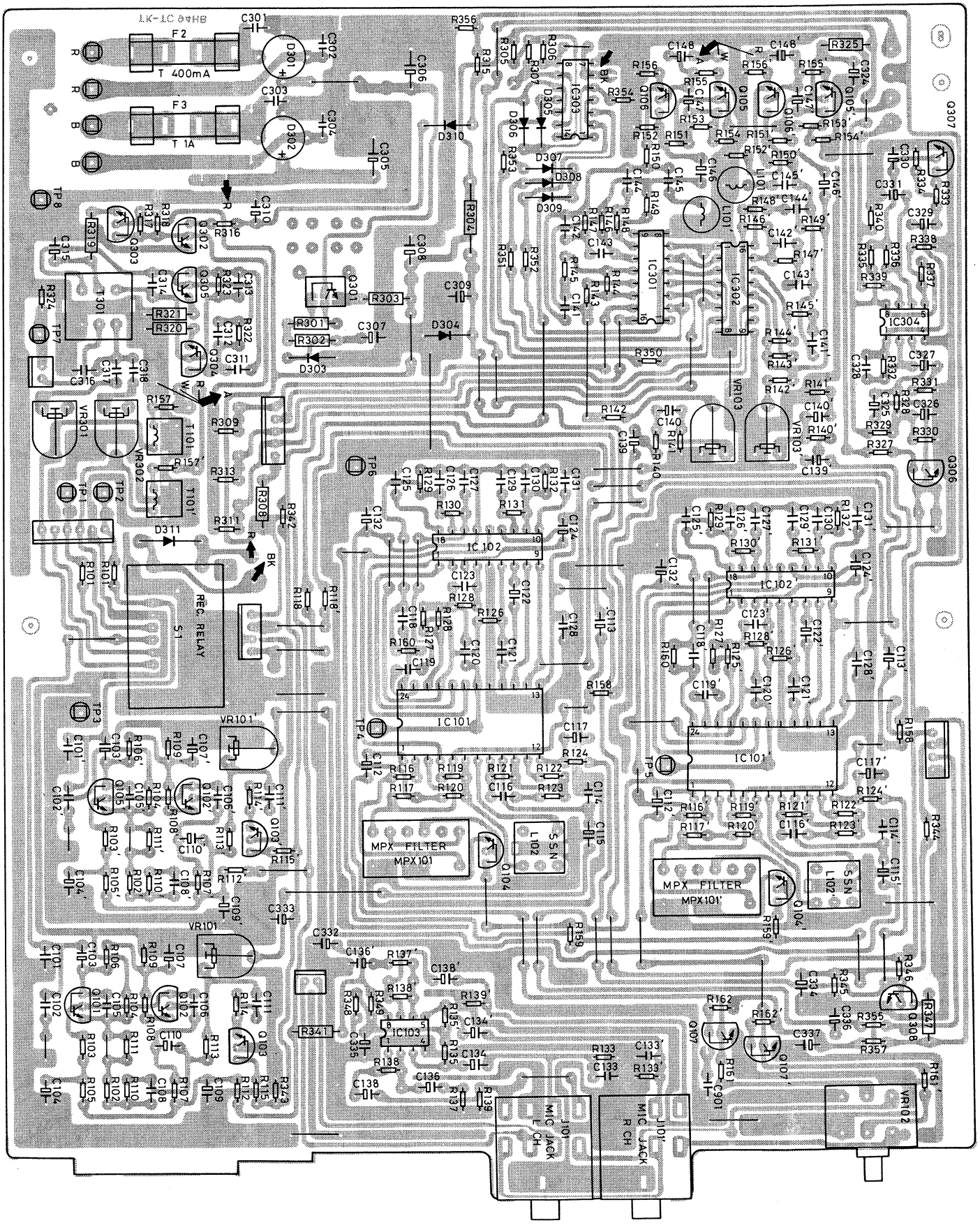


TMP 4320

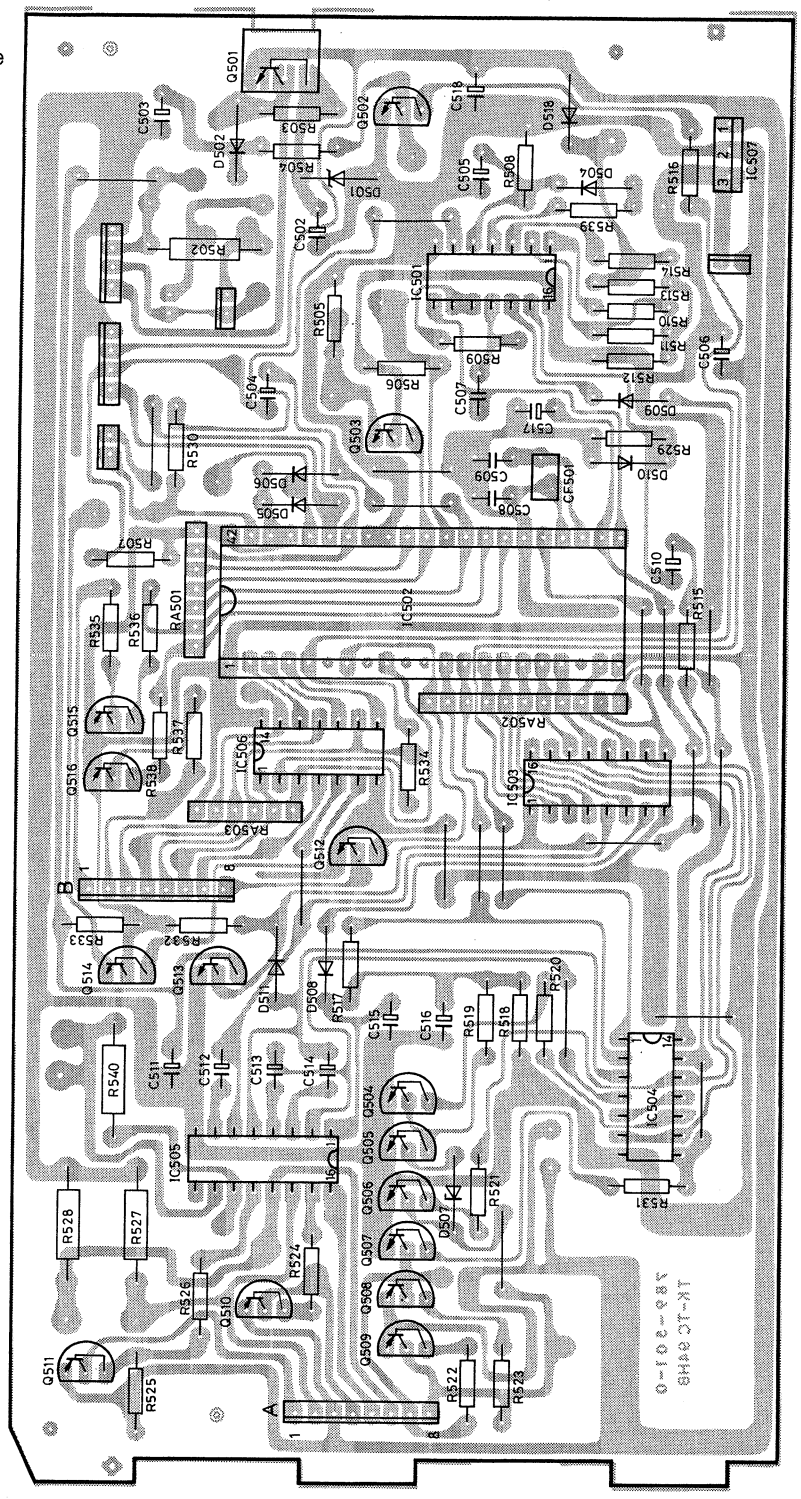


TA 7332 P

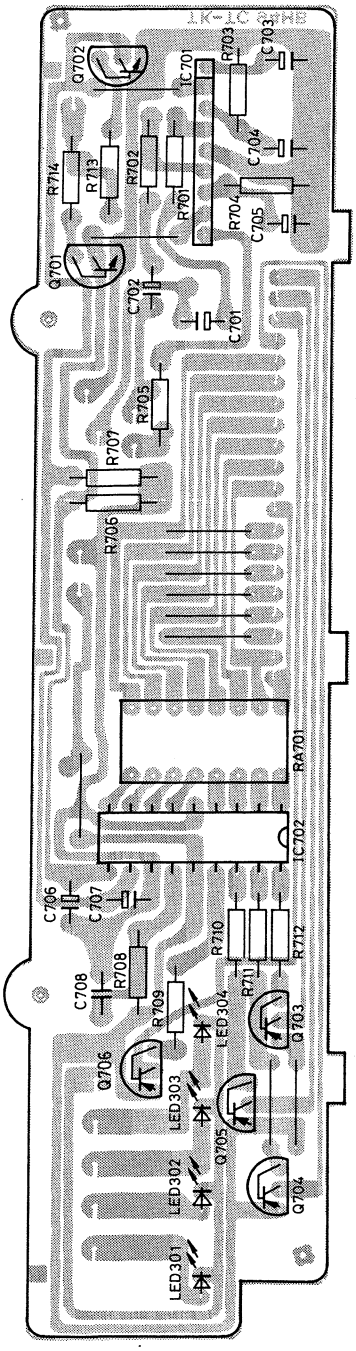
Grundplatte
Main board
Plaque d'étage



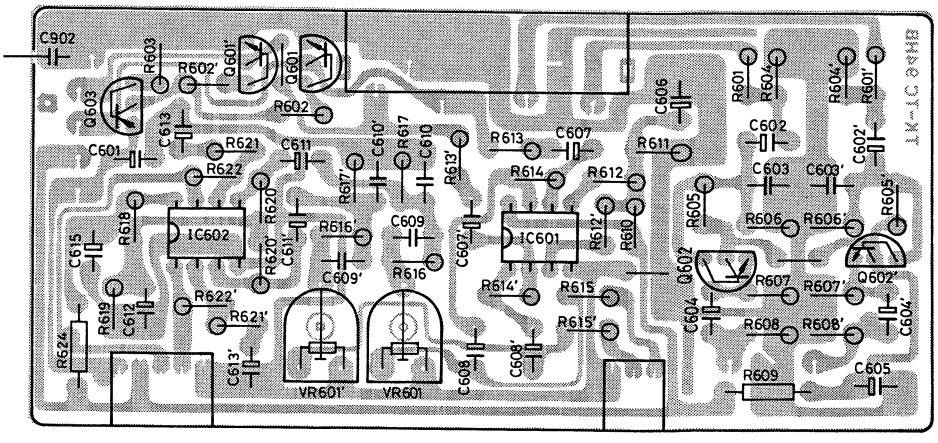
Controllplatte
Control board
Plaque de contrôle



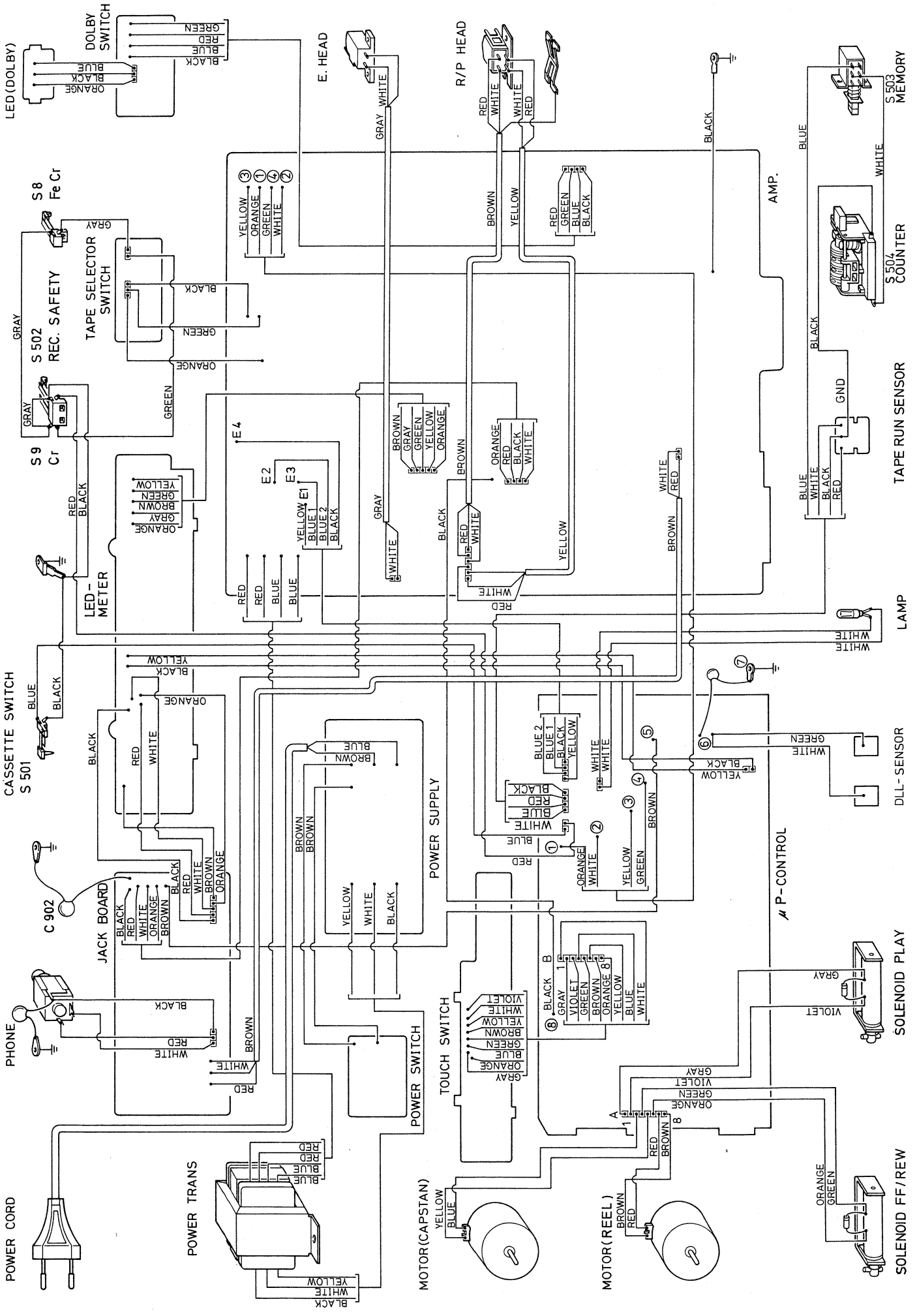
LED-Anzeigeplatte
LED board
Plaque de LED



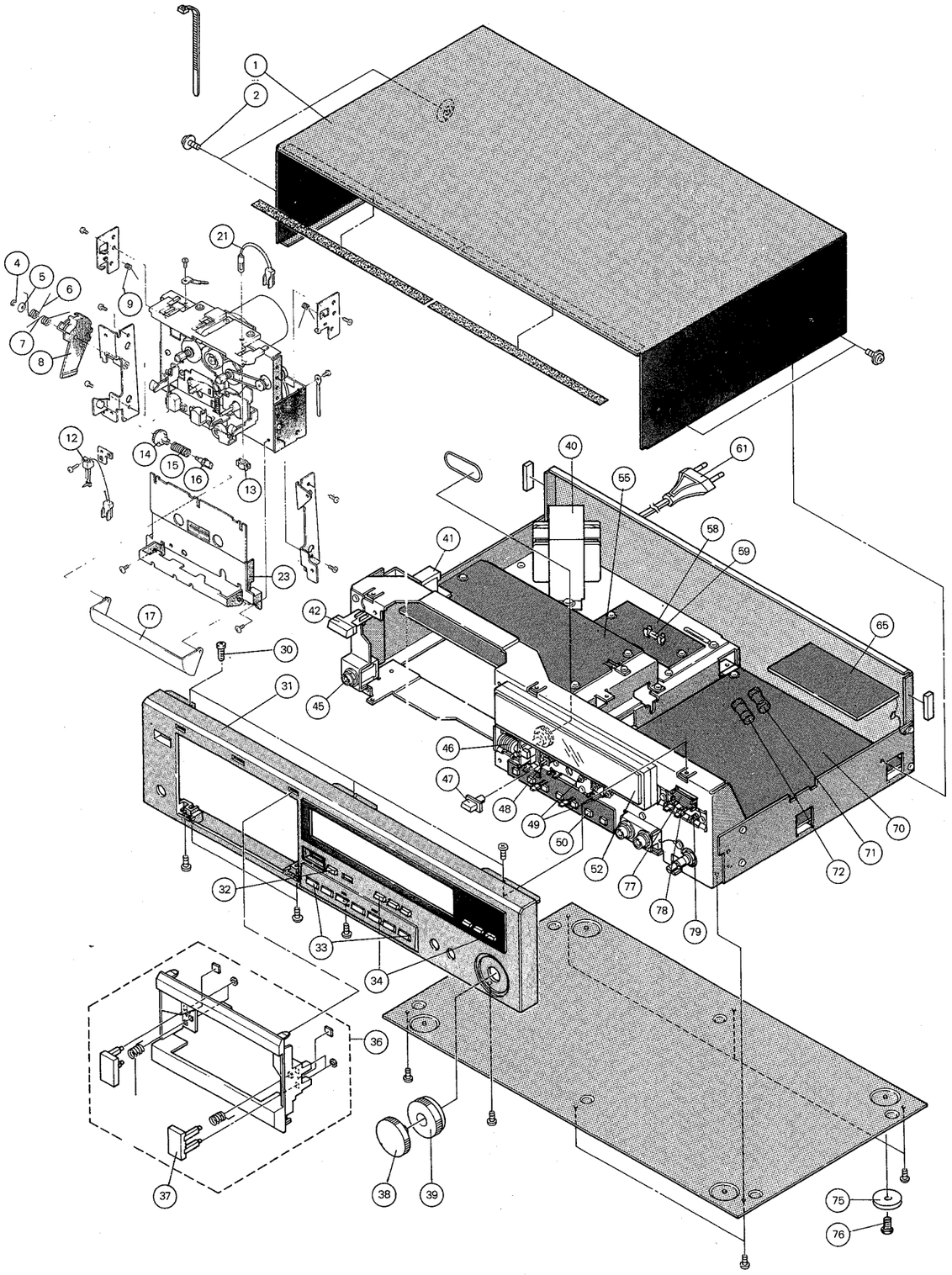
Anschlußbuchsenplatte
Connection board
Plaque de prises de branchement



Verdrahtungsplan Wiring schema Schéma de câble



Explosionszeichnung 1
Explodes view 1
Vue explosée 1

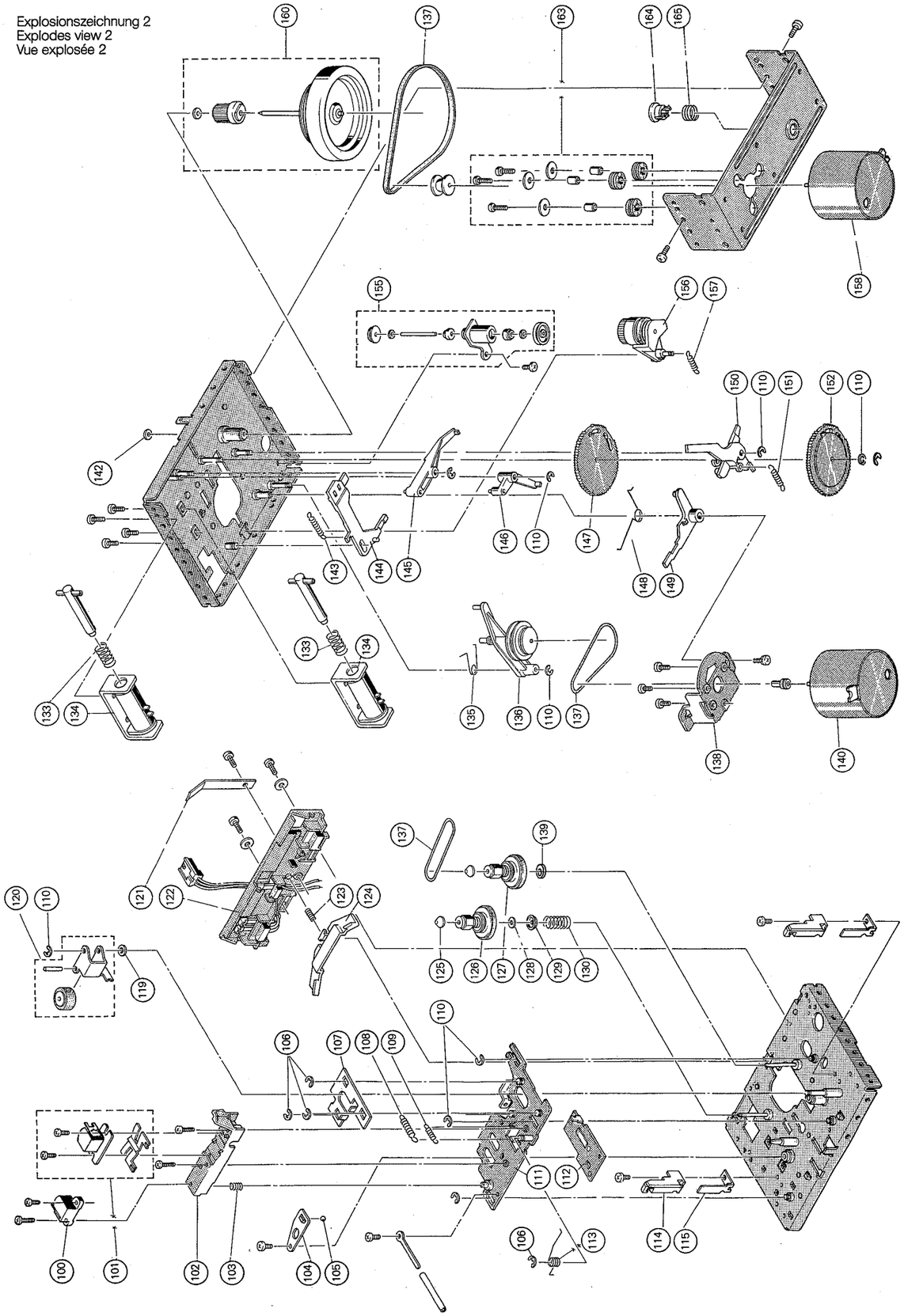


Ersatzteile · Replacement parts · Pièces détachée · C 826

Pos.	Art.-Nr.	Stck	Bezeichnung
1	272671	1	Gehäuse
2	272673	4	Schraube B 4×6
4	210145	1	Scheibe 2,3
5	269484	1	Scheibe 3,7/9/0,5
6	271053	1	Schenkelfeder
7	268263	1	Spiralfeder B
8	270170	1	Dämpfungshebel
9	274049	1	Spiralfeder
12	270166	1	Schalter
13	269521	1	Halter
14	270171	1	Dämpfungsrad
15	271055	1	Druckfeder
16	270172	1	Achse
17	270173	1	Kopfvisier
21	264059	1	Lampe
23	270167	1	Abdeckung
30	267527	8	Schraube M 3×6
31	274048	1	Frontblende
32	272470	1	Zählerknopf
33	274055	7	Taste
34	274056	6	Taste
36	274057	1	Abdeckung
37	272687	1	Taste
38	272326	1	Drehknopf L
39	272327	1	Drehknopf R
40	274059	1	Netztrafo
41	271004	1	Druckschalter
42	274062	1	Schaltertaste
45	273414	1	Zähler
46	263029	1	IC DN 6838
46	263055	1	Bandlaufüberwachung
47	273409	1	Memory-Knopf
48	270163	1	Memoryschalter
49	274063	1	Tapeschalter S 5–7
50	274416	1	**Tipptastenplatte**
51	274447	7	Tipptaster
D 512	271099	4	Diode US 1035
D 513	271099	4	Diode US 1035
D 514	271099	4	Diode US 1035
D 515	271099	4	Diode US 1035
LD 501	273786	1	LED GL-9NG 24
LD 502	274417	1	LED GL-9SPR 24
52	274418	1	**LED-Anzeige**
IC 701	274421	1	IC TA 7332 P
IC 702	274422	1	IC MSL 9350 R
LD 301	273786	4	LED GL-9NG 24
LD 302	273786	4	LED GL-9NG 24
LD 303	273786	4	LED GL-9NG 24
LD 304	273786	4	LED GL-9NG 24
LD 700	274419	1	LED SD 101 A
Q 701	274420	2	2 SC 1684 S
Q 702	274420	2	2 SC 1684 S
Q 703	271118	4	2 SA 1015-GR
Q 704	271118	4	2 SA 1015-GR
Q 705	271118	4	2 SA 1015-GR
Q 706	271118	4	2 SA 1015-GR
RA 701	274423	1	Netzwerk 8×120 Ω
55	274424	1	**Controlplatte**
CF 501	270182	1	Ceramic-Filter
D 501	264089	1	DZ HZ 15-3
D 502	271098	1	SR 15-2
D 503	264086	8	DD MA 150
D 504	264086	8	DD MA 150
D 505	264086	8	DD MA 150
D 506	264086	8	DD MA 150
D 507	264086	8	DD MA 150
D 507	271117	1	HZ 6A-1L
D 508	264086	8	DD MA 150
D 509	264086	8	DD MA 150
D 510	264086	8	DD MA 150
D 511	264086	8	DD MA 150
D 518	274425	1	ER 2C 03 DK 121
IC 501	270180	1	IC TC 4069 UBP
IC 502	271068	1	Mikro-Computer
IC 503	270184	1	IC SN 74 LS 174
IC 504	271143	1	IC MB 840 71 BN
IC 505	271105	1	IC TD 62 104 P
IC 506	270180	2	IC TC 4069 UBP
IC 507	271075	1	IC NJM 78 MO 5A
Q 501	269488	1	2 SD 549
Q 502	247647	6	2 SC 1815 GR
Q 503	247647	6	2 SC 1815 GR

Pos.	Art.-Nr.	Stck	Bezeichnung
Q 504	247647	6	2 SC 1815 GR
Q 505	247647	6	2 SC 1815 GR
Q 506	268329	2	2 SC 2120 Y
Q 507	268329	2	2 SC 2120 Y
Q 508	268332	4	2 SA 950 Y
Q 509	268332	4	2 SA 950 Y
Q 510	268332	4	2 SA 950 Y
Q 511	268332	4	2 SA 950 Y
Q 512	247647	6	2 SC 1815 GR
Q 514	247647	6	2 SC 1815 GR
Q 515	271118	2	2 SA 1015 GR
Q 516	271118	2	2 SA 1015 GR
RA 501	274426	1	Netzwerk 47 kΩ
RA 502	274427	1	Netzwerk 3,3 kΩ
RA 503	274428	1	Netzwerk 10 kΩ
58	274717	1	Netzplatte unbestückt
59	271615	1	G-Schmelzeinsatz T 160 mA
61	232995	1	Netzkabel USA
61	243750	1	Netzkabel Europa
65	274429	1	**Buchsenplatte**
66	274430	1	Buchse
IC 601	260189	2	IC TBB 1458
IC 603	260189	2	IC TBB 1458
Q 601	274431	1	2 SC 2878 A
Q 602	271130	2	2 SC 2634 NC-T
Q 603	265578	1	2 SA 564
VR 601	270193	2	5 kΩ
70	274432	1	**Grundplatte**
71	271623	1	G-Schmelzeinsatz T 400 mA
72	271810	1	G-Schmelzeinsatz T 1A
D 301	265534	2	WO 2
D 302	265534	2	WO 2
D 303	270189	1	HZ 22-2L
D 304	270137	1	HZ 15-1
D 305	264086	6	MA 150
D 306	264086	6	MA 150
D 307	264086	6	MA 150
D 308	264086	6	MA 150
D 309	264086	6	MA 150
D 310	264086	6	MA 150
D 311	263036	1	SR 1-K-2
IC 101	274438	2	IC NE 654 P
IC 102	274439	2	IC NE 652 P
IC 103	260189	1	IC TBB 1458
IC 301	274436	2	IC TD 62504 P
IC 302	274436	2	IC TD 62504 P
IC 303	261872	1	IC MC 14001 BC
IC 304	274437	1	IC TA 75559 P
J 101	272949	1	Buchse
J 102	274443	1	Buchse
L 101	273423	2	Spule 2,2 mH
L 102	273776	2	Spule
MX 101	274441	2	MPX-Filter
Q 101	271130	8	2 SC 2634 NC-T
Q 102	271130	8	2 SC 2634 NC-T
Q 103	274420	6	2 SC 1684 S
Q 104	274420	6	2 SC 1684 S
Q 105	271130	8	2 SC 2634 NC-T
Q 106	271130	8	2 SC 2634 NC-T
Q 107	274431	4	2 SC 2878 A
Q 108	274431	4	2 SC 2878 A
Q 301	269489	1	2 SD 837 R
Q 302	274420	6	2 SC 1684 S
Q 303	269487	1	2 SD 892 Q
Q 304	263028	2	2 SD 592 NC-S
Q 305	263028	2	2 SD 592 NC-S
Q 306	274420	6	2 SC 1684 S
Q 307	270191	8	2 SC 1318 S
Q 308	274420	6	2 SC 1684 S
R 303	274433	2	Sicherung 4,7 Ω
R 319	274433	2	Sicherung 4,7 Ω
S 1	274442	1	Magnet-Schalter (Record/Play)
T 101	268338	2	Spule
T 301	274440	1	Transformerspule
VR 101	263041	2	Einstellregler 20 kΩ
VR 102	274444	1	Volume-Steller 5 kΩ
VR 103	270141	2	Steller 10 kΩ
VR 301	270142	2	Steller 50 kΩ
VR 302	270142	2	Steller 50 kΩ
75	268315	4	Gerätefuß
76	210480	4	Schraube M 3×6

Explosionszeichnung 2
Explodes view 2
Vue explosée 2



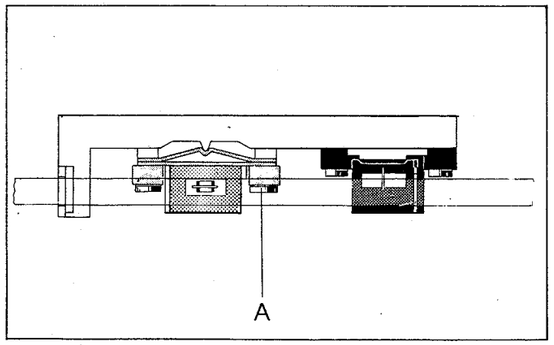
Ersatzteile · Replacement parts · Pièces détachée · C 826

Pos.	Art.-Nr.	Stck	Bezeichnung
77	274445	1	LED-Einheit
78	273786	2	LED GL-9NG 24
79	274446	1	Dolby-Schalter (S2-3)
100	263059	1	Löschknopf
101	274450	1	Aufnahme-/Wiedergabeknopf
102	270448	1	Kopfträger
103	269279	1	Druckfeder
104	270511	1	Haltebügel
105	209353	1	Kugel 2,0
106	269470	4	Ring
107	270513	1	Führungsplatte
108	270474	1	Zugfeder
109	270475	1	Zugfeder
110	210145	9	Scheibe 2,3
111	270458	1	Kopfträgerplatte
112	270457	1	Playarm
113	274451	1	Schenkelfeder
114	269426	1	Cassettenführung
115	270514	1	Haltefeder
119	269468	1	Scheibe 3,1×5,4×0,13
120	271031	1	Andruckrolle
121	269552	1	Blattfeder
122	274452	1	Cassettenhalteplatte
123	270476	1	Druckfeder
124	270487	1	Bremsarm
125	269424	1	Abdeckkappe
126	274453	1	Mitnehmer links
127	274454	1	Mitnehmer rechts
128	271033	1	Scheibe 2,2/5,5/0,13

Pos.	Art.-Nr.	Stck	Bezeichnung
129	269473	1	Distanzrolle
130	274455	1	Druckfeder
133	274456	1	Druckfeder
134	274457	1	Zugmagnet
135	274458	1	Schenkelfeder
136	270445	1	Kupplung
137	271037	1	Riemensatz
138	270509	1	Motorbrücke
140	271039	1	Motor mit Antriebsrolle
142	269447	1	Scheibe
143	270470	1	Zugfeder
144	270488	1	Bremsauslöseplatte
145	270491	1	Auslösehebel
146	270492	1	Betätigungshebel
147	270489	1	Antriebsrad
148	274459	1	Schenkelfeder
149	270486	1	RF-Hebel
150	270485	1	Kurvenhebel
151	270468	1	Zugfeder
152	270490	1	Antriebsrad
155	271044	1	Zwischenradset
156	271045	1	Getriebe kpl.
157	270480	1	Zugfeder
158	271041	1	Motor mit Antriebsrolle
160	271047	1	Schwungscheibe
163	271051	1	Motorbefestigung
164	270494	1	Lager
165	270471	1	Druckfeder
	270740	1	Bedienungsanleitung
	269013	1	Verpackung

Änderungen vorbehalten!
Alterations reserved!
Sous réserve de modifications!

AW-Kopfjustage
Record/Playback head
Tête d'enregistrement



Drucksachen - Korrektur
Correction
Imprimés rectification

Dual NEW TECH

Datum-Date-Date	Zeichen-Ref.-N/réf.	Geräte Nr.-Serial number-No. de l'appareil	No
02.04.86	KD/Ju		3/C 826

Service-Anleitung C 826
Service-Manual
Instructions de Service

Pos.	Art-Nr.	Bezeichnung
45	266 528	Kopfhörerbuchse
46	273 414	Zähler